

Max. Marks: 10

Ministry of Maths

Time: 15 Minutes

Date :

15 Minutes Self Assessment Test

Class-XI th

1. $49y^2 - 16x^2 = 784$. Find foci, vertices, directrices, latus rectum, transverse, conjugate axis.
2. vertices $(\pm 7, 0)$, $e = \frac{4}{3}$. Find equation of Hyperbola
3. Foci $(0, \pm \sqrt{10})$, passing through $(2, 3)$ Find equation of Hyperbola
4. A rod AB of length 15 cm rests in between two coordinate axes in such a way that the end point A lies on x -axis and end point B lies on y -axis. A point $P(x, y)$ is taken on the rod in such a way that $AP = 6$ cm. Find the Locus of P
5. An equilateral triangle is inscribed in the parabola $y^2 = 4ax$, where one vertex is at the vertex of the parabola. Find the length of the side of the triangle.

H.O. MINISTRY OF MATHS Near KUBER SWEET SHOP BABARPUR ROAD, VASHI STHA CLASSES MANSAROVER PARK,
260 CHANDRALOK SHAHDARA, DTA LAL BAGH, Ph: 999925 24 24, 9990 25 24 24, 011-22 13 13 13, 011 22 32 42 52

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